



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: V2522-A5 BYPASS RATIO: 4.9
 UNIQUE ID NUMBER: 3IA006 PRESSURE RATIO (π_{co}): 25.6
 COMBUSTOR:
 ENGINE TYPE: MTF RATED THRUST (F_{oo}) (kN): 102.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	0.5	33.0	53.3	11.6
AS % OF ORIGINAL LIMIT	2.3	28.0	58.5	49.4
AS % OF CAEP/2 LIMIT (NO _x)			73.1	
AS % OF CAEP/4 LIMIT (NO _x)			88.9	
AS % OF CAEP/6 LIMIT (NO _x)			101.1	
AS % OF CAEP/8 LIMIT (NO _x)			121.3	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.971	0.04	0.57	24.50	5.4
CLIMB OUT	85	2.2	0.817	0.04	0.67	20.80	7.5
APPROACH	30	4.0	0.311	0.06	2.60	8.70	4.0
IDLE	7	26.0	0.118	0.10	13.42	4.50	2.6
LTO TOTAL FUEL (kg) or EMISSIONS (g)			407	30	2760	4720	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				0.3	26.9	46.0	9.0
SIGMA (D _p /F _{oo} in g/kN, or SN)							
RANGE (D _p /F _{oo} in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 6.2 / 5.5 (% CORE FLOW) AT 7% / 30% POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101-101.8
TEMPERATURE (K)	288-296
ABS HUMIDITY (kg/kg)	0.0086-0.0114

FUEL

SPEC	Jet A
H/C	1.9
AROM (%)	

MANUFACTURER: International Aero Engines
 TEST ORGANIZATION: Pratt & Whitney
 TEST LOCATION: East Hartford, CT
 TEST DATES: 12/08/1992-13/08/1992

REMARKS

- Engine Type description originally wrongly given as TF; amended in Issue 15 to MTF

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)